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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:

Jiang et al.

: Group Art Unit: 1742

Application No. 09/682,630

: Examiner: A. Wessman

Filed: October 1, 2001

: Response to Paper No. 8

For: **Rhodium, Platinum, Palladium Alloy**

10/3  
P/B  
7/16/02

**AMENDMENT**

Assistant Commissioner for Patents  
Washington, DC 20231

S I R:

In response to the Office Action dated 05/24/2002, please amend the above-identified  
application as follows.

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TC 1700

**IN THE SPECIFICATION**

Please amend the specification as follows:

**Abstract**

An alloy and a gas turbine engine component comprising an alloy are presented, with the  
alloy comprising:

palladium, in an amount ranging from about 1 atomic percent to about 41 atomic percent;  
platinum, in an amount that is dependent upon the amount of palladium, such that

- a. for the amount of palladium ranging from about 1 atomic percent to  
about 14 atomic percent, the platinum is present up to about an amount  
defined by the formula  $(40 + X)$  atomic percent, wherein X is the amount in  
atomic percent of the palladium, and
- b. for the amount of palladium ranging from about 15 atomic percent  
up to about 41 atomic percent, the platinum is present in an amount up to  
about 54 atomic percent; and

the balance comprising rhodium, wherein the rhodium is present in an amount of at least 24  
atomic percent;